

COMPLEX ANALYSIS

SEMINAR

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1:30 pm Tuesday May 20
Padelford C-401

Generalizations of the Chang-Marshall theorem in space

Abstract: We survey topics and recent results about exponential integrability of traces. In the unit disk D , Alice Chang and Don Marshall showed that there is a constant C so that whenever f is an analytic function on D , $f(0)=0$, and the modulus of the derivative of f is square integrable over D , with integral less or equal π , then the boundary function (or trace) of f on the unit circle T is well-defined almost everywhere and the integral of $\exp(|f|^2)$ over T is uniformly bounded by the constant C . In joint work with Kai Rajala and Pekka Pankka, we prove some generalizations in \mathbb{R}^n for the traces of quasiregular maps and for the traces of monotone Sobolev functions.

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